

WHAT IS CLAIMED IS:

1. A moving image compression-coding system conversion device for mutually converting a coded bit stream between a transmission side moving image coding device and a receiving side moving image decoding device having different moving

5 image compression-coding systems, the moving image compression-coding system conversion device comprising:

a decoding unit for decoding a moving image signal, which is compression-coded, outputted from the transmission side moving image coding device;

10 a coding control unit for setting a parameter for compression-coding based on receiving decoding information outputted from the receiving side moving image decoding device; and

a coding unit for compression-coding the moving image
15 signal decoded by the decoding unit by using the parameter for compression-coding outputted from the coding control unit.

2. The moving image compression-coding system conversion device, as claimed in claim 1, wherein the coding unit starts operation when control information outputted from the coding control unit is inputted, performs intra-frame
5 coding to a first frame after starting the operation, and performs inter-frame prediction coding to a subsequent frame.

3. The moving image compression-coding system conversion device, as claimed in claim 1, further comprising a judging unit, wherein

the judging unit starts operation when the receiving
5 decoding information outputted from the receiving side moving
image decoding device is inputted, and outputs the moving
image signal decoded in the decoding unit to the coding unit.

4. The moving image compression-coding system
conversion device, as claimed in claim 2, further comprising
a judging unit, wherein

the judging unit starts operation when the receiving
5 decoding information outputted from the receiving side moving
image decoding device is inputted, and outputs the moving
image signal decoded in the decoding unit to the coding unit.

5. The moving image compression-coding system
conversion device, as claimed in claim 1, wherein

when MPEG(Moving Picture Expert Group)-4 is used as the
moving image compression-coding system, data of DCI (Decoder
5 Configuration Information) is used as a parameter for
compression-coding.

6. The moving image compression-coding system
conversion device, as claimed in claim 2, wherein

when MPEG(Moving Picture Expert Group)-4 is used as the
moving image compression-coding system, data of DCI (Decoder
5 Configuration Information) is used as a parameter for
compression-coding.

7. The moving image compression-coding system
conversion device, as claimed in claim 3, wherein

when MPEG(Moving Picture Expert Group)-4 is used as the

moving image compression-coding system, data of DCI (Decoder
5 Configuration Information) is used as a parameter for
compression-coding.

8. The moving image compression-coding system
conversion device, as claimed in claim 1, wherein

when MPEG-4 is used as the moving image compression-
coding system, at least one information of a plurality of
5 parameters included in DCI such as whether Resync Marker
being used, whether Data Partitioning being used, whether
Reversible VLC (Variable Length Codes) being used, a value of
aspect_ratio_info, and a value of
vop_time_increment_resolution is used as a parameter for
10 compression-coding.

9. The moving image compression-coding system
conversion device, as claimed in claim 2, wherein

when MPEG-4 is used as the moving image compression-
coding system, at least one information of a plurality of
5 parameters included in DCI such as whether Resync Marker
being used, whether Data Partitioning being used, whether
Reversible VLC (Variable Length Codes) being used, a value of
aspect_ratio_info, and a value of
vop_time_increment_resolution is used as a parameter for
10 compression-coding.

10. The moving image compression-coding system
conversion device, as claimed in claim 3, wherein

when MPEG-4 is used as the moving image compression-

coding system, at least one information of a plurality of
5 parameters included in DCI such as whether Resync Marker
being used, whether Data Partitioning being used, whether
Reversible VLC (Variable Length Codes) being used, a value of
aspect_ratio_info, and a value of
vop_time_increment_resolution is used as a parameter for
10 compression-coding.

11. The moving image compression-coding system
conversion device, as claimed in claim 1, wherein the
receiving decoding information transmitted from the receiving
side moving image decoding device is transmitted by using
5 ITU-T (International Telecommunication Union
Telecommunication Standardization Sector) recommendation
H.245 protocol.

12. The moving image compression-coding system
conversion device, as claimed in claim 2, wherein the
receiving decoding information transmitted from the receiving
side moving image decoding device is transmitted by using
5 ITU-T (International Telecommunication Union
Telecommunication Standardization Sector) recommendation
H.245 protocol.

13. The moving image compression-coding system
conversion device, as claimed in claim 3, wherein the
receiving decoding information transmitted from the receiving
side moving image decoding device is transmitted by using
5 ITU-T (International Telecommunication Union

Telecommunication Standardization Sector) recommendation H.245 protocol.

14. The moving image compression-coding system conversion device, as claimed in claim 1, wherein the receiving decoding information transmitted from the receiving side moving image decoding device is transmitted by using SDP
5 (Session Description Protocol) which is IETF (Internet Engineering Task Force) recommendation RFC(Request for Comments)2327.

15. The moving image compression-coding system conversion device, as claimed in claim 2, wherein the receiving decoding information transmitted from the receiving side moving image decoding device is transmitted by using SDP
5 (Session Description Protocol) which is IETF (Internet Engineering Task Force) recommendation RFC(Request for Comments)2327.

16. The moving image compression-coding system conversion device, as claimed in claim 3, wherein the receiving decoding information transmitted from the receiving side moving image decoding device is transmitted by using SDP
5 (Session Description Protocol) which is IETF (Internet Engineering Task Force) recommendation RFC(Request for Comments)2327.

17. The moving image compression-coding system conversion device, as claimed in claim 1, further comprising a decoding control unit, instead of the coding control unit,

wherein

5 the decoding control unit sets a parameter for
compression-coding included in coding transmission
information outputted from the transmission side moving image
coding device; and

 the decoding unit decodes the moving image signal,
10 compression-coded, outputted from the transmission side
coding device by using the parameter for compression-coding
outputted from the decoding control unit.

18. The moving image compression-coding system
conversion device, as claimed in 1, further comprising a
decoding control unit, in addition to the coding control unit,
wherein

5 the decoding control unit sets a parameter for
compression-coding included in coding transmission
information outputted from the transmission side moving image
coding device; and

 the decoding unit decodes the moving image signal,
10 compression-coded, outputted from the transmission side
coding device by using the parameter for compression-coding
outputted from the decoding control unit.

19. The moving image compression-coding system
conversion device, as claimed in claim 17, wherein

 when MPEG(Moving Picture Expert Group)-4 is used as the
moving image compression-coding system, data of DCI (Decoder
5 Configuration Information) is used as a parameter for

compression-coding.

20. The moving image compression-coding system conversion device, as claimed in claim 18, wherein

when MPEG(Moving Picture Expert Group)-4 is used as the moving image compression-coding system, data of DCI (Decoder
5 Configuration Information) is used as a parameter for compression-coding.

21. The moving image compression-coding system conversion device, as claimed in claim 17, wherein

when MPEG-4 is used as the moving image compression-coding system, at least one information of a plurality of
5 parameters included in DCI such as whether Resync Marker being used, whether Data Partitioning being used, whether Reversible VLC (Variable Length Codes) being used, a value of aspect_ratio_info, and a value of vop_time_increment_resolution is used as a parameter for
10 compression-coding.

22. The moving image compression-coding system conversion device, as claimed in claim 18, wherein

when MPEG-4 is used as the moving image compression-coding system, at least one information of a plurality of
5 parameters included in DCI such as whether Resync Marker being used, whether Data Partitioning being used, whether Reversible VLC (Variable Length Codes) being used, a value of aspect_ratio_info, and a value of vop_time_increment_resolution is used as a parameter for

10 compression-coding.

23. The moving image compression-coding system conversion device, as claimed in claim 17, wherein

MPEG-4 is used as the moving image compression-coding system of the decoding unit, control information obtained
5 from a receiving coded bit stream is compared with control information according to any one of claims 19, 20, 21 and 22, and when there is a difference, control information according to any one of claims 19, 20, 21 and 22 is used.

24. The moving image compression-coding system conversion device, as claimed in claim 18, wherein

MPEG-4 is used as the moving image compression-coding system of the decoding unit, control information obtained
5 from a receiving coded bit stream is compared with control information according to any one of claims 19, 20, 21 and 22, and when there is a difference, control information according to any one of claims 19, 20, 21 and 22 is used.

25. The moving image compression-coding system conversion device, as claimed in claim 17, wherein the parameter for compression-coding system from the transmission side moving image coding device is transmitted by using ITU-T
5 recommendation H.245 protocol.

26. The moving image compression-coding system conversion device, as claimed in claim 18, wherein the parameter for compression-coding system from the transmission side moving image coding device is transmitted by using ITU-T

5 recommendation H.245 protocol.

27. The moving image compression-coding system conversion device, as claimed in claim 17, wherein the parameter for compression-coding system from the transmission side moving image coding device is transmitted by using SDP
5 which is IETF recommendation RFC2327.

28. The moving image compression-coding system conversion device, as claimed in claim 18, wherein the parameter for compression-coding system from the transmission side moving image coding device is transmitted by using SDP
5 which is IETF recommendation RFC2327.

29. A moving image communication system comprising:
a transmission side moving image coding device and a receiving side moving image decoding device having different moving image compression systems; and
5 a moving image compression-coding system conversion device according to claim 1 for mutually converting a coded bit stream between the transmission side moving image coding device and the receiving side moving image decoding device.

30. A moving image communication system comprising:
a transmission side moving image coding device and a receiving side moving image decoding device having different moving image compression systems; and
5 a moving image compression-coding system conversion device according to claim 2 for mutually converting a coded bit stream between the transmission side moving image coding

device and the receiving side moving image decoding device.

31. A moving image communication system comprising:

a transmission side moving image coding device and a receiving side moving image decoding device having different moving image compression systems; and

5 a moving image compression-coding system conversion device according to claim 3 for mutually converting a coded bit stream between the transmission side moving image coding device and the receiving side moving image decoding device.

32. A moving image communication system comprising:

a transmission side moving image coding device and a receiving side moving image decoding device having different moving image compression systems; and

5 a moving image compression-coding system conversion device according to claim 17 for mutually converting a coded bit stream between the transmission side moving image coding device and the receiving side moving image decoding device.

33. A moving image communication system comprising:

a transmission side moving image coding device and a receiving side moving image decoding device having different moving image compression systems; and

5 a moving image compression-coding system conversion device according to claim 18 for mutually converting a coded bit stream between the transmission side moving image coding device and the receiving side moving image decoding device.